



HARD-ELASTIC

## Technical Data Sheet

# Bona R850

## Hard-Elastic Parquet Adhesive

Bona R850 is an; according to ISO 17178; hard-elastic 1-component silane based adhesive for parquet floors, in particular solid elements. The hardened adhesive is - similar to conventional adhesives - able to withstand thrust during expansion, while the resistance against shrinkage is very low. Tensions to the sub floor are therefore reduced. The use of a primer is in general not necessary. The adhesive hardens by a chemical reaction with moisture.

- Rapid initial bonding strength
- Versatile usage
- Water and solvent free, nearly no swelling of the wood
- Good adhesion to almost all substrates and timber materials
- Splashed material can be easily removed

### Technical Data

Base: Composition of silane terminated pre-polymers, calcium carbonate and additives

Colour: beige

Viscosity: Easy to apply - stable

Density: 1.51 g/cm<sup>3</sup>

Open Time: ca. 40 min\*

ISO Category: Hard-Elastic

GISCODE: RS 10

EMICODE: EC1-R Plus

Affset: A+

DIBt Approval: Z-155-10.8

Cleaning agent: Bona Cleaning Wipes, Bona S100, acetone, ethanol. Hardened adhesive can only be removed mechanically.

Drying time: 24 to 48 h

Surface treatment: Depending on air humidity and the moisture content of the materials between 12 and 24 hrs.

Storage / transport: The temperature must not fall below +5°C or exceed +25°C during storage and transport. Store in a cool, dry, well ventilated place.

Pack Size: 15 KG bucket and 5400 ml (approx. 8.2 KG) tubular bags

Shelf life: Buckets: 12 month / Tubular bags 24 month from date of production in unopened original container/tubular bag

Disposal: Wastes and emptied container/tubular bags, should be handled in accordance to local regulations.

\* at 20°C and 55 % rH.

Additional detailed information is noted in the appropriate Safety Data Sheet.

### Subfloor Preparation

The substrate must in general be even, totally dry, clean, free from cracks and physically sound. The surface should also be slightly textured. If applicable, it must meet the requirements of local standards or codes of practice. If necessary it should be professionally prepared for laying. A primer is typically not needed. If the sub floor is problematic the use of a primer like Bona D501, R410, R540 or R580 can improve it. A broadcasting of sand into Bona R410 can be omitted, if the surface stays clean and the parquet is glued with R850 within 24 h. Uneven floors should be levelled with Bona H600, H610 (filling of holes), H660 or H670. Note: Bona R850 is suitable in association with under floor heating. Such floors need to pass the heating up protocol to drying up the screed! During installation and three days after the screed temperature must not pass 25°C!

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Fastening





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### Suitable Subfloors

- Cementitious screed (CT) according to EN 13813
- Floors levelled with levelling compounds (at least 2 mm thick, resistant against plasticizer migration)
- Calcium sulfate screed (CA) according to EN 13813
- Chipboard, OSB board
- Other dry and sound sub floors
- Mastic asphalt screed (AS) according to EN 13813 and other sub floors which are affected by migration of plasticizers must get a protective layer of Bona R410 or Bona R540

### Processing

Before using the adhesive the following climatic conditions must be met (values for Central Europe): Air temperature: min. 18°C; Floor temperature: min. 15°C (with underfloor heating max. 20 °C); R.H: max. 70 %. The adhesive itself must, if necessary, be brought to the right temperature. After opening the bucket remove the protective foil and hardened adhesive at the edges. The adhesive should be applied evenly using a notched trowel appropriate to the flooring being laid (see below). The parquet should be laid on the adhesive and pressed down firmly during the open time, approx. 40 minutes. If on the sub floor applied adhesive has a skin, remove adhesive and apply new. If some adhesive is pressed up in joints (so that it might come into direct contact with the finish) it must be carefully removed. Depending on the expected average conditions the parquet needs, for the best adhesion, the correct moisture content of the wood to be selected. Solid wood parquet should be slightly more humid whilst multi-layered or prefinished parquet should be slightly drier. E.g. in Central Europe average room conditions of 20°C and 50 % relative air humidity can be expected. Prefinished parquet shall have in average 8 %. Typical deviations from the average are +/- 2 %. Where doubts exist, avoid too dry material. Please also refer to the instructions for use provided by the parquet manufacturer.

### Consumption & Parquet Types

Mosaic parquet

Usage: approximately 850 g/m<sup>2</sup>, Bona Trowel 850 F or 850 G

- 2 layered prefinished parquet

Usage: approximately 1000 g/m<sup>2</sup>, Bona Trowel 1000 F or 1000 G

- 22 mm strip flooring
- 23 mm industrial parquet
- 3 layered prefinished parquet

Usage: approximately 1250 g/m<sup>2</sup>, Bona Trowel 1250 F or Bona 1250 G

- 22 mm solid planks

Usage: approximately 1500 g/m<sup>2</sup>, Bona Trowel 1500 F or Bona 1500 G

(F = fine, G = coarse)

Use a fine trowel for small pieces of wood and/or smooth substrates, and a coarse trowel for large pieces of wood and/or less smooth and rough surfaces.

The adhesive consumption during the application with the Bona OptiSpread system depends mainly on the walking speed as well as the adjusted air pressure (OptiSpread 100, OptiSpread 2.0). Please refer to respective machine manual.

### Surface Treatment

Sanding and the application of a surface coating may be carried out after after 12-24 hours. After 24-48 hours it is possible to apply load or stress to the floor. The drying time depends on the type of parquet, the absorbency of the substrate and the climate conditions.

Bona takes only responsibility for the delivered product, no responsibility can be taken for the total installed product. If in doubt, conduct a test or a trial. Observe also other Bona product datasheets.

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